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Appl. No. 10/579,569

Amdt. dated September 17, 2009

Reply to Final Office action of May 26, 2009

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

Claims 1-10. (Canceled)

11. (Currently amended) In a multipiston pump, having a pump housing, a motor, and an

eccentric unit driven by the motor, having an arrangement comprising a plurality of piston

pumps, which are combined hydraulically by means of connecting conduits in the pump

housing into first and second pump units to supply two hydraulically separate hydraulic

circuits with pressure fluid, the low-pressure sides of the piston pumps in the first pump unit

being connected hydraulically to one another by a <u>first</u> low-pressure conduit and the high-

pressure sides of the piston pumps in the first pump unit being connected hydraulically to one

another by a first high-pressure conduit, the low-pressure sides of the piston pumps in the

second pump unit being connected hydraulically to one another by a second low-pressure

conduit and the high-pressure sides of the piston pumps in the second pump unit being

connected hydraulically to one another by a second high-pressure conduit, and the eccentric

unit and the arrangement of piston pumps being adapted structurally to one another in the

pump housing such that the piston pumps of one pump unit are always actuated in alternation

with the piston pumps of the second pump unit with a phase offset between the actuation of

the piston pumps of one pump unit on the one hand and the actuation of the two pump units

Page 2 of 10

Appl. No. 10/579,569

Amdt. dated September 17, 2009

Reply to Final Office action of May 26, 2009

on the other hand, so that the intake phases of at least two piston pumps overlap, without the

piston pumps being in phase opposition to one another, the improvement wherein the

eccentric unit comprises at least two axially spaced apart cams, wherein the piston pumps are

located in a number of sectional planes of the pump housing that correspond to the number of

cams with the axial spacing of the cams being essentially equivalent to the axial spacing of

these sectional planes; wherein the connecting conduits of the pump units are located in a

region of the pump housing defined by the sectional planes, and wherein at least one of the

piston pumps, combined hydraulically into a pump unit, is actuated by a different cam from

the respective other piston pumps of the corresponding pump unit.

Claim 12. (Canceled)

13. (Previously presented) The multipiston pump in accordance with claim 11, further

comprising a rotary angle spacing in the range of between 110° and 130° between two

successively actuated piston pumps of a pump unit.

14. (Currently amended) The multipiston pump in accordance with claim 11, wherein the

rotary angle spacing between successive actuations of two piston pumps is in the range of

approximately 30° or in the range of approximately 90°.

Claim 15. (Canceled)

Page 3 of 10

Appl. No. 10/579,569

Amdt. dated September 17, 2009

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16. (Currently amended) The multipiston pump in accordance with claim 13, wherein the

rotary angle spacing between successive actuations of two piston pumps is in the range of

approximately 30° or in the range of approximately 90°.

17. (Currently amended) The multipiston pump in accordance with claim 14, wherein the

cams are rotated by the rotary angle relative to one another with the rotary angle spacing of

the cams being in the range of approximately 150°.

18. (Previously presented) The multipiston pump in accordance with claim 11, wherein

each cam of the eccentric unit drives at least two piston pumps.

Claim 19. (Canceled)

20. (Previously presented) The multipiston pump in accordance with claim 11, wherein the

piston pumps that are combined into a pump unit are located spatially immediately adjacent

one another in the pump housing.

Claim 21. (Canceled)

22. (Previously presented) The multipiston pump in accordance with claim 13, wherein the

piston pumps that are combined into a pump unit are located spatially immediately adjacent

one another in the pump housing.

Page 4 of 10

Appl. No. 10/579,569

Amdt, dated September 17, 2009

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Claims 23-25. (Canceled)

26. (Previously presented) The multipiston pump in accordance with claim 11, wherein

one piston of at least one of the piston pumps is embodied as a stepped piston and defines two

pressure chambers each, which are of variable volume in phase opposition to one another.

Claim 27. (Canceled)

28. (Previously presented) The multipiston pump in accordance with claim 20, wherein

one piston of at least one of the piston pumps is embodied as a stepped piston and defines two

pressure chambers each, which are of variable volume in phase opposition to one another.

29. (Previously presented) In an electrohydraulic vehicle brake system, having an external-

force-actuated service brake and a muscle-force-actuated emergency brake, each with two

brake circuits the improvement wherein the service brake is equipped with a multipiston

pump as defined claim 11.

30. (Previously presented) The multipiston pump in accordance with claim 13, further

comprising a rotary angle spacing of 120° between two successively actuated piston pumps

of a pump unit.

Page 5 of 10